

ECR #: P8

Tracker #: 11

Status: Ratified

Title: FP_SPKR_EN Termination Change

Release Date: July 25, 1997

Impact, High: Motherboard Design Change

Spec Version: NLX 1.2

Summary:

The signal definition for the front panel speaker enable signal (FP_SPKR_EN) will be revised to state that this signal is pulled low through a pull down on the motherboard.

Background:

It has been recently discovered that the front panel speaker enable signal (FP_SPKR_EN) has been incorrectly specified in the NLX Motherboard Specification, Appendix B, section 7, "NLX Riser with Supplemental Connector Example." This signal is specified as being pulled high, through a pull up on the motherboard. This will cause motherboard audio circuitry that utilizes the signal to be disabled on risers that do not implement audio.

To correct this, the signal definition will be revised to state that this signal is pulled low through a pull down on the motherboard. This will affect all motherboards implementing audio, routing audio up to the riser, and utilizing the FP_SPKR_EN signal to disable back panel audio.

Change Current Specification As Shown:

In Table B.1, Signals, NLX Riser with Supplemental Connector, on page 66, correct the description of the Front Panel Speaker Enable signal (FP_SPKR_EN) as follows:

Pin	Signal Name	Type	I/O *	Description	Signal Type
X5	FP_SPKR_EN	AUDIO	I	This signal indicates if headphones have been plugged into the front panel LINE_OUT jack. The signal is connected to one of the wipers on the audio jack and is HIGH when the headphones are plugged into the front audio jack and LOW when they are not. The signal is pulled LOW through a pull down on the motherboard (Typically 100K).	TTL